

Title (en)

Tire with component of rubber composition comprised of silanol and/or siloxy functionalized elastomer and silica

Title (de)

Reifen mit einer Komponente enthaltend eine Kautschukzusammensetzung auf Basis eines Styren/Butadien Elastomer, das mit Silanol oder Siloxy Gruppen funktionalisiert ist, und silica

Title (fr)

Pneu ayant un composant à base de caoutchouc fait à partir d'un élastomère fonctionalisé par un groupe silanol ou un groupe siloxy, et de silice

Publication

**EP 1400559 A1 20040324 (EN)**

Application

**EP 03103359 A 20030911**

Priority

US 41131202 P 20020917

Abstract (en)

The invention relates to a tire having at least one component (e.g. tread) of a rubber composition comprised of a composite of styrene/butadiene elastomer and functionalized styrene/butadiene elastomer containing an internal silanol and/or siloxy group therein with pendent silanol and/or alkoxy groups of a polymodal (e.g. bimodal) molecular weight distribution and a dispersion therein of silica aggregates of which a portion thereof contain a plurality of hydroxyl groups on their surface in a form of geminal hydroxyl groups. In one aspect, said silica aggregates may be pre-treated to reduce said hydroxyl groups on their surface prior to blending with said silanol and/or siloxy functionalized elastomer.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

[DA] US 6071995 A 20000606 - LABAUZE GERARD [FR]

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